

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

70-167-01

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Riddle Well No. 1-E
Unit I Sec. 4 Twp. 30 Rge. 9 Pay Zone: From 4622 To 5220
Casing: OD 5.5 WT. 15.5 Set At 5285 Tubing: OD 2 WT. 4.7 T. Perf. 5162
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 3/23/58 To 3/30/58 * Date S.I.P. Measured 1/24/58 (13 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.3) ² x sp. const. 10 _____ = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 533 psia (h)
P_t = (h) + (f) _____ = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 892 psig + 12 = 904 psia (j)
Wellhead tubing shut-in pressure (Dwt) 891 psig + 12 = 903 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 903 psia (l)
Flowing Temp. (Meter Run) 74 °F + 460 _____ = 534 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 452 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\frac{V(c)}{V(d)} = \frac{\quad}{\quad}}{\quad} \right)^* = \underline{1709} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1709} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.2892}{1.2098} = \underline{2068} \text{ MCF/day}$$

SUMMARY

P_c = 903 psia
Q = 1709 Mcf/day
P_w = 584 psia
P_d = 452 psia
D = 2068 Mcf/day

Company El Paso Natural Gas
By Harold L. Kendrick
Title _____
Witnessed by _____
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column H)	P _t ² + R ²	P _w
3459	.222	258.181	57,316	284,089	341,405	584

D at 500 = 1762

OK

